

Reformer furnace for performing an endothermic process

Abstract

5 The invention relates to a reformer furnace for performing an endothermic process. The reformer furnace comprises a reaction space formed with reaction tubes, a firing space fitted with burners and a flue gas channel in fluid connection with the firing space. The burners are arranged at a first end face of the reformer furnace and produce flames oriented towards a second end face to fire the reaction tubes. According
10 to the invention it is provided that the flue gas channel has a transition region and a withdrawal region, wherein the flue gas channel is connected to the second end face of the firing space via the transition region and the transition region of the flue gas channel has a reduced channel diameter compared to the withdrawal region of the flue gas channel. The transition region thus comprises a constriction relative to the
15 withdrawal region which results in a hydraulic decoupling between the firing space and the withdrawal region of the flue gas channel.

[Figure 1]